

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

| ST0005 Sutter Maintenance Yard Hamilton Bend | Overall LMA Rating | Total LMA Miles | | | | | | |
|---|------------------------|-----------------|--------------|-------------|-------------|---------|------------------------------|---------|
| | U | 3.22 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Trim / Thin Trees | 1.95 | | 1.95 | 60.56% | | | | |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.31% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| DWR UCIP Field Study | | | | | 0.20 | | | |
| <i>LMA Totals:</i> | 1.96 | 0.00 | 1.96 | 60.87% | 0.20 | 0.00 | 0.00 | 0.00 |

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2013 Levee Inspection Results**

Sutter Maintenance Yard Hamilton Bend

| | Spring (March - May) | Summer ** (June - August) | Fall (September - November) | Winter ** (December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| * Overall LMA Rating (Fall Only) | | | U | |

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Hamilton Bend

| Waterway | | Bank | Unit Miles |
|---|---|---------------------------|---|
| Unit No. 01 Feather River Hamilton Bend | | Right | 3.22 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | U |
| Date of Inspection | 04/23/2013 - 04/23/2013 | | 10/21/2013 - 10/21/2013 |
| DWR Inspector | Rick Burnett | | Matthew Hoffman |
| Accompanied By | Jason Cooper Sutter Maintenance Yard | | Jason Cooper Sutter Maintenance Yard |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMR No. | Levee Mile | | Category | Item | * Location | ** Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------------------------------|------------|------|---------------|---------------------------------------|------------|------------|---|--|--------|--------------------|
| | Start | End | | | | | | Start | End | |
| 1 | | | Earthen Levee | Operations & Maintenance Manuals | | CR A Ma | | ° ° ° ° | 7 | |
| DWR ID: DWR_ST0005_01_s_2013_7 | | | | | | | | | | |
| 2 | | | Earthen Levee | Emergency Supplies & Equipment | | CR A Ma | | ° ° ° ° | 8 | |
| DWR ID: DWR_ST0005_01_s_2013_8 | | | | | | | | | | |
| 3 | | | Earthen Levee | Flood Preparedness & Training | | CR A Ma | | ° ° ° ° | 9 | |
| DWR ID: DWR_ST0005_01_s_2013_9 | | | | | | | | | | |
| 4 | 0.36 | 0.36 | Earthen Levee | Crown Surface / Depressions / Rutting | | CR M Ma | C2 : Repair depressions or ruts in the crown or slope. | 39.444939 ° -121.641780 ° 39.444939 ° -121.641780 ° | 2 Y | |
| DWR ID: DWR_ST0005_01_s_2013_2 | | | | | | | | | | |
| 5 | 0.80 | 0.80 | Supplemental | DWR UCIP Field Study | | CR M En | Inspector Comments: FS_ID:7961 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 11/14/2012 | 39.451078 ° -121.640773 ° 39.451078 ° -121.640773 ° | 1 | |
| DWR ID: DWR_ST0005_01_f_2013_1 | | | | | | | | | | |
| 6 | 0.80 | 0.80 | Supplemental | DWR UCIP Field Study | | CR M En | Inspector Comments: FS_ID:8363 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0029 no issues reported. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 11/14/2012 | 39.451078 ° -121.640773 ° 39.451078 ° -121.640773 ° | 3 Y | |
| DWR ID: DWR_ST0005_01_f_2013_3 | | | | | | | | | | |
| 7 | 0.80 | 0.80 | Supplemental | DWR UCIP Field Study | | CR M En | Inspector Comments: FS_ID:7943 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 11/14/2012 | 39.451078 ° -121.640773 ° 39.451078 ° -121.640773 ° | 10 | |
| DWR ID: DWR_ST0005_01_f_2013_10 | | | | | | | | | | |

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|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo | |
|---------|------------|------|---------------|----------------------|----------|---------|--|---------------------------------|---------------|--------------------|---|
| | Start | End | | | | | | Start | End | | |
| 8 | 0.80 | 0.80 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:13237 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0029 no issues reported.5/14/2013 SBFCA project recommends removal.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 5/14/2013 12:46:25 PM | 39.451078 ° | -121.640773 ° | 11 | |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_11 | | | |
| 9 | 1.04 | 1.04 | Earthen Levee | Encroachments | CR A/W | En | BU : Building Inspector Comments: Abandoned inlet structure. | 39.454464 ° | 39.454464 ° | 28 | |
| | | | | | | | | -121.640361 ° | | -121.640361 ° | Y |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_28 | | | |
| 10 | 1.05 | 1.05 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7948 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, 1 of 6 culverts, 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. No crossing at the canal, go back to levee mile 0.95. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.454557 ° | -121.640274 ° | 12 | |
| | | | | | | | | 39.454557 ° | | -121.640274 ° | |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_12 | | | |
| 11 | 1.05 | 1.05 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:8662 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; Structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, Six 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.454557 ° | -121.640274 ° | 13 | |
| | | | | | | | | 39.454557 ° | | -121.640274 ° | Y |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_13 | | | |

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|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------|------------|-----|----------|------|----------|--------|----------------|------------------------|-----|--------------------|
| | Start | End | | | | | | Start | End | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 12 | 1.05 | 1.05 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:13240 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; Structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported.5/14/2013 SBFCA project report says the structure will need to be removed and the levee built back up in its place. MHM will include demo plan and levee civil will prepare plans for new levee.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, Six 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:51:18 PM | 39.454557 ° | -121.640274 ° | 14 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_14 | | |

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|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 13 | 1.05 | 1.05 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:13241 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; Structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, Six 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:56:41 PM | 39.454557 ° | -121.640274 ° | 15 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_15 | | |

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|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------|------------|-----|----------|------|----------|--------|----------------|------------------------|-----|--------------------|
| | Start | End | | | | | | Start | End | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|---|---------------------------------|---------------|----|
| 14 | 1.05 | 1.05 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:8364 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, 1 of 6 culverts, 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. No crossing at the canal, go back to levee mile 0.95. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.454557 ° | -121.640274 ° | 16 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_16 | | |

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|----|------|------|--------------|----------------------|----|---------|---|---------------------------------|---------------|----|
| 15 | 1.15 | 1.15 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7950 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: top of slide gate visible from levee; slide gate buried FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. FS Date: 11/14/2012 | 39.455926 ° | -121.639660 ° | 17 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_17 | | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 16 | 1.17 | 1.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:13238 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned structure: Structure is non-operational, slide gate is completely buried; top of slide gate barely visible from levee;5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. No features of structure were found with the exception of slide gate frame. FS Date: 5/14/2013 12:48:22 PM | 39.456287 ° | -121.639530 ° | 18 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_18 | | |

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMIR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|----------|------------|------|---------------|---------------------------------------|----------|---------|--|---------------------------------|---------------|--------------------|
| | Start | End | | | | | | Start | End | |
| 17 | 1.17 | 1.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7962 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned structure: Structure is non-operational, slide gate is completely buried; top of slide gate barely visible from levee; FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. No features of structure were found with the exception of slide gate frame. FS Date: 11/14/2012 | 39.456287 ° | -121.639530 ° | 19 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_19 | | |
| 18 | 1.17 | 1.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7955 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: top of slide gate visible from levee; slide gate buried FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. FS Date: 11/14/2012 | 39.456287 ° | -121.639530 ° | 20 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_20 | | |
| 19 | 1.41 | 3.18 | Earthen Levee | Trim / Thin Trees | LS | M Ma | T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | 39.458060 ° | 39.470433 ° | 4 |
| | | | | | | | | -121.636332 ° -121.609200 ° | | Y |
| | | | | | | | | DWR ID: DWR_ST0005_01_s_2013_4 | | |
| 20 | 1.44 | 1.62 | Earthen Levee | Trim / Thin Trees | WS | M Ma | T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | 39.458255 ° | 39.459451 ° | 5 |
| | | | | | | | | -121.635808 ° -121.633670 ° | | Y |
| | | | | | | | | DWR ID: DWR_ST0005_01_s_2013_5 | | |
| 21 | 2.04 | 2.12 | Earthen Levee | Crown Surface / Depressions / Rutting | CR | C Ma | C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. | 39.462914 ° | 39.463526 ° | 6 |
| | | | | | | | | -121.627650 ° -121.626435 ° | | |
| | | | | | | | | DWR ID: DWR_ST0005_01_s_2013_6 | | |
| 22 | 3.16 | 3.16 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7954 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.469686 ° | -121.610365 ° | 21 |
| | | | | | | | | 39.469686 ° -121.610365 ° | | |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_21 | | |

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|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------|------------|-----|----------|------|----------|--------|----------------|------------------------|-----|--------------------|
| | Start | End | | | | | | Start | End | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 23 | 3.17 | 3.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7964 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- remince of gates and concrete standpipe; LS-remince of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. Two (2) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.470269 ° | -121.609229 ° | 22 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_22 | | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|---------|
| 24 | 3.17 | 3.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7963 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- remince of gates and concrete standpipe; LS-remince of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.470269 ° | -121.609229 ° | 23 Y |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_23 | | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 25 | 3.17 | 3.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:13243 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- remince of gates and concrete standpipe; LS-remince of concrete headwall and pump station.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. Two (2) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:58:44 PM | 39.470269 ° | -121.609229 ° | 24 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_24 | | |

| | | | |
|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| LMR No. | Levee Mile | | Category | Item | Location | Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------|------------|-----|----------|------|----------|--------|----------------|------------------------|-----|--------------------|
| | Start | End | | | | | | Start | End | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|---|---------------------------------|---------------|----|
| 26 | 3.17 | 3.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:13242 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station.5/14/2013 Same as last inpection. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:57:57 PM | 39.470269 ° | -121.609229 ° | 25 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_25 | | |

| | | | | | | | | | | |
|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 27 | 3.17 | 3.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7953 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. Two (2) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.470269 ° | -121.609229 ° | 26 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_26 | | |

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|----|------|------|--------------|----------------------|----|---------|--|---------------------------------|---------------|----|
| 28 | 3.17 | 3.17 | Supplemental | DWR UCIP Field Study | CR | M En | Inspector Comments: FS_ID:7956 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012 | 39.470269 ° | -121.609229 ° | 27 |
| | | | | | | | | DWR ID: DWR_ST0005_01_f_2013_27 | | |

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| | |
|--|--|
| Levee Mile Report Line | 4 |
| Start Levee Mile | 0.36 |
| End Levee Mile | 0.36 |
| Location | Crown |
| Category | Earthen Levee |
| Item | Crown Surface / Depressions / Rutting |
| Deep rut in crown. Repair prior to flood season. | |
| mhoffman_f_20130917_136.JPG | |



| | |
|---|----------------------|
| Levee Mile Report Line | 6 |
| Start Levee Mile | 0.80 |
| End Levee Mile | 0.80 |
| Location | Crown |
| Category | Supplemental |
| Item | DWR UCIP Field Study |
| View of ditch and pipe running along landward side. | |
| UCIP_4559.jpg | |



| | |
|--|---------------|
| Levee Mile Report Line | 9 |
| Start Levee Mile | 1.04 |
| End Levee Mile | 1.04 |
| Location | Crown |
| Category | Earthen Levee |
| Item | Encroachments |
| This photo was taken facing north looking down the levee crown at an old inlet structure. Fall 2013. | |
| mhoffman_f_20131028_680.JPG | |



| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| | |
|------------------------|----------------------|
| Levee Mile Report Line | 11 |
| Start Levee Mile | 1.05 |
| End Levee Mile | 1.05 |
| Location | Water Side |
| Category | Supplemental |
| Item | DWR UCIP Field Study |

View of concrete structure, Photo 1 of 2.

UCIP_4985.jpg



| | |
|------------------------|----------------------|
| Levee Mile Report Line | 16 |
| Start Levee Mile | 1.17 |
| End Levee Mile | 1.17 |
| Location | Water Side |
| Category | Supplemental |
| Item | DWR UCIP Field Study |

View of landward side looking upstream at crossing.

UCIP_7190.jpg



| | |
|------------------------|-------------------|
| Levee Mile Report Line | 19 |
| Start Levee Mile | 1.41 |
| End Levee Mile | 3.18 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Trim / Thin Trees |

L/S trees.

mhoffman_f_20130917_137.JPG



| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|-----------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.22 | 10/21/2013 10/21/2013 | Matthew Hoffman |

| | |
|------------------------|-------------------|
| Levee Mile Report Line | 20 |
| Start Levee Mile | 1.44 |
| End Levee Mile | 1.62 |
| Location | Water Side |
| Category | Earthen Levee |
| Item | Trim / Thin Trees |

W/S trees.

mhoffman_f_20130917_138.JPG



| | |
|------------------------|----------------------|
| Levee Mile Report Line | 24 |
| Start Levee Mile | 3.17 |
| End Levee Mile | 3.17 |
| Location | Water Side |
| Category | Supplemental |
| Item | DWR UCIP Field Study |

Pump station located on landward side.

UCIP_3671.jpg



| | | |
|---|--|--|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p> | <p>+ Issue Type</p> <p>Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p> |
|---|--|--|